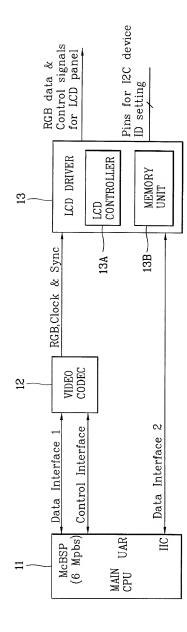
rocerrocerrocer FIG. 1A



# FIG. 1B

## 3 Mode Operation

# Active Mode(Data Interface 1):

- -JPEG,GIF
- MPEG4 MP3(128kbps). AAC
- Animation (Game)
- -Text Service

## Standby Mode(Data Interface 2):

-Animation, Still Image & Text, Text only

### Power Down Mode

-LCD Driver IC power off, but SRAM is alive

# Display Scheme

### Active Mode

- -Normal Operation
- -Main CPU, Video CODEC and LCD driver IC are all alive -LCD display frame rate of ~30 frames/sec
- Standby Mode
- -Power Saving Mode(Video CODEC is powered off)
- -Animation or Still Image & Text or Text can be displayed
- -LCD display frame rate of~5 frames/sec

## Power Down Mode

-Nothing is displayed, Ready for displaying

FIG. 2

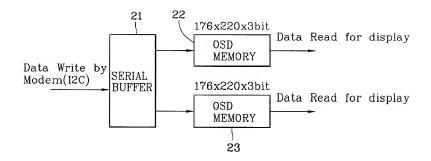
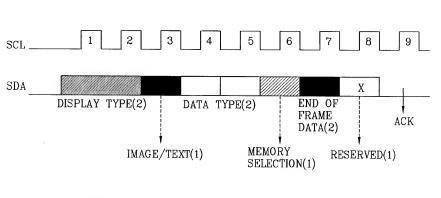


FIG. 3



DISPLAY TYPE(2bits)

00: ANIMATION

01: STILL IMAGE & TEXT

10: TEXT ONLY

11: REGISTER CONTROL

IMAGE/TEXT(1bit) O: TEXT DATA

1: IMAGE DATA

DATA TYPE(2bit) 00: BURST DATA 01: AREA DATA 10: LINE DATA 11: PIXEL DATA

OSD MEMORY SELECTION(1bit) 0: OSD MEMORY 1(FIRST)

1: OSD MEMORY 2(SECOND)

END OF FRAME DATA(1bit)

0: NOT EOFD 1: EOFD

# FIG. 4

## IMAGE DATA REPRESENTATION(3bits)

000: BLACK

001: BLUE 010: GREEN 011: CYAN

100: RED 101: MAGENTA 110: YELLOW

111: WHITE

TEXT DATA REPRESENTATION(1bit)
0: BACKGROUND DATA

1: TEXT DATA

FIG. 5

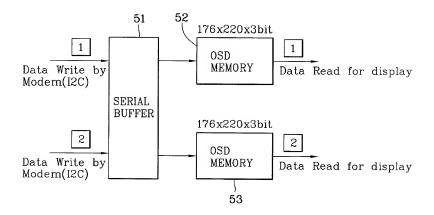


FIG. 6

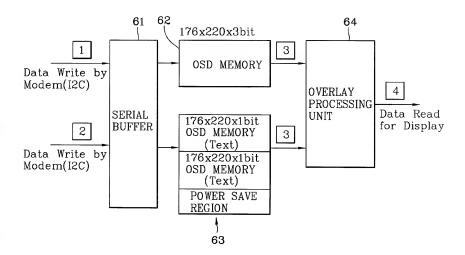


FIG. 7

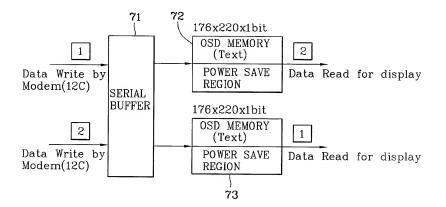
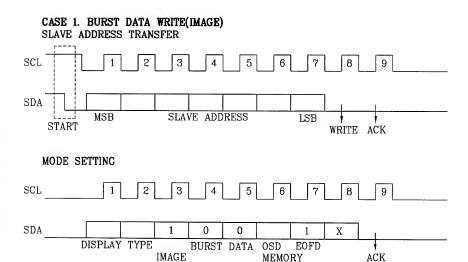


FIG. 8A



SELECTION

### PIXEL DATA TRANSFER

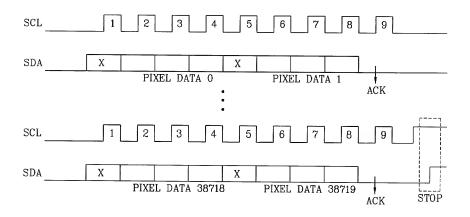
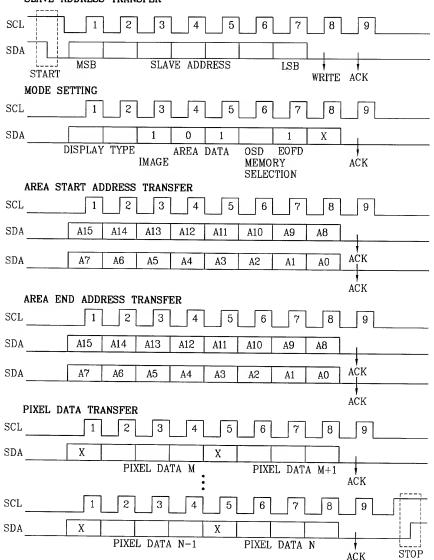


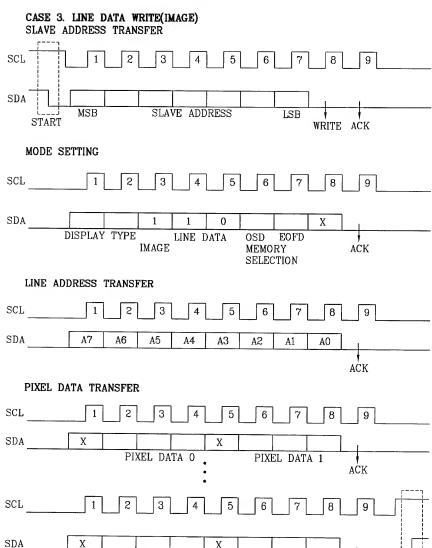
FIG. 8B

# CASE 2. AREA DATA WRITE(IMAGE) SLAVE ADDRESS TRANSFER



SDA

FIG. 8C



PIXEL DATA 174

PIXEL DATA

175

AĊK

STOP

FIG. 8D

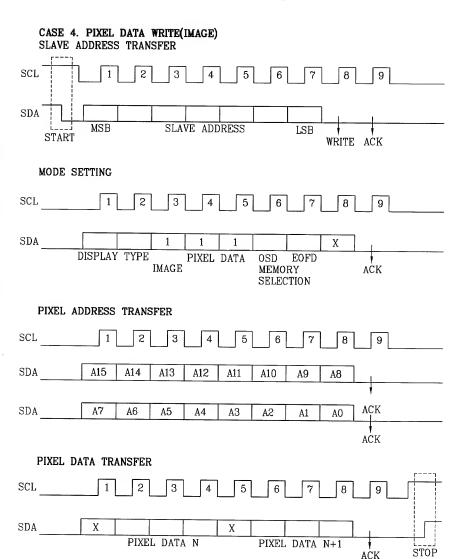
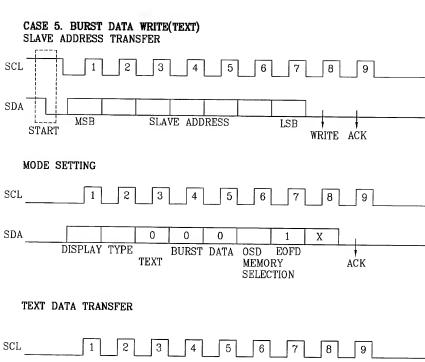


FIG. 8E



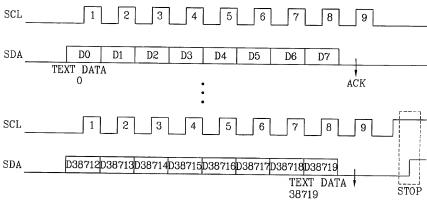


FIG. 8F

# CASE 6. AREA DATA WRITE(TEXT) SLAVE ADDRESS TRANSFER

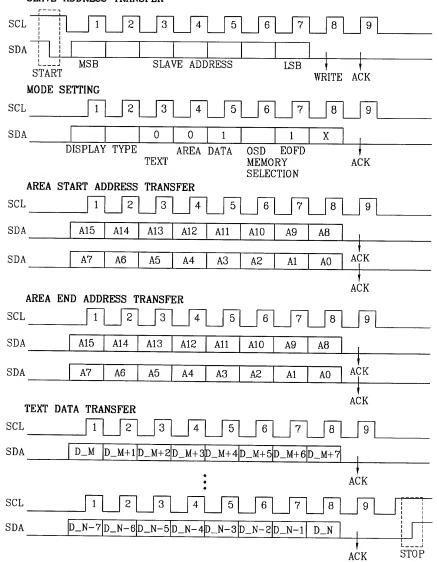
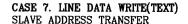
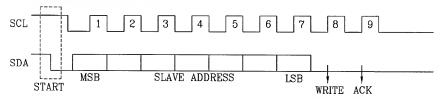
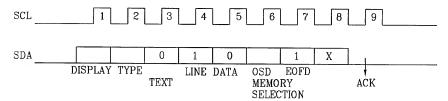


FIG. 8G

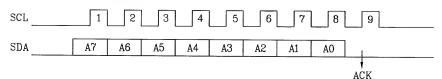




### MODE SETTING



#### LINE ADDRESS TRANSFER



### TEXT DATA TRANSFER

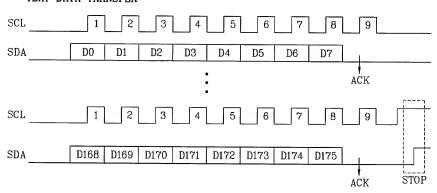
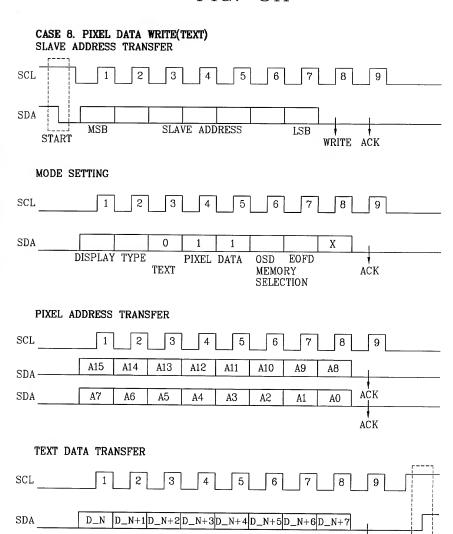


FIG. 8H



ACK

FIG. 9

